

COMPRESSION

Cylinder Head

Adjust Valve Clearance

Current Style,
Models 110600, 111600, 120600, 121600, 122600,
123600

Note: Check valve clearances while engine is cold.

1. Turn crankshaft until piston is at Top Dead Center (both valves closed) on compression stroke.
2. Insert a narrow screwdriver or small rod into spark plug hole against piston. Screwdriver or rod are used to gauge piston movement.
3. Turn crankshaft clockwise (flywheel end), while watching screwdriver or rod, past Top Dead Center until piston is 1/4" (6 mm) down.
4. Using feeler gauges, check valve clearance. Clearance should be as listed in Table No. 4, last page.
5. If not, adjust jam nut until correct clearance is obtained, Fig. 20.

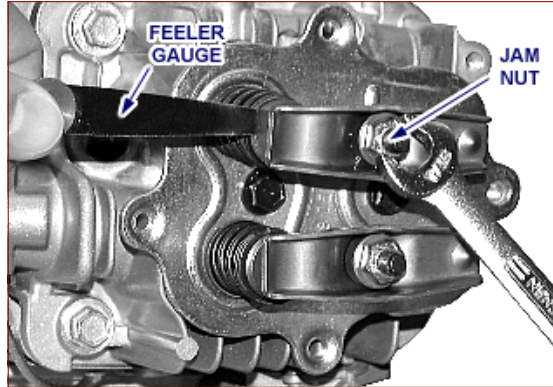


Fig. 20 - Adjust Rocker Arm Clearance, Current Style

Early Style,
Models 110600, 111600, 120600, 121600, 122600,
123600

Note: Check valve clearances while engine is cold.

1. Turn crankshaft until piston is at Top Dead Center (both valves closed) on compression stroke.
2. Insert a narrow screwdriver or small rod into spark plug hole against piston. Screwdriver or rod are used to gauge piston movement.
3. Turn crankshaft clockwise (flywheel end), while watching screwdriver or rod, past Top Dead Center but piston is not past 1/4" (6 mm) down.
4. Loosen jam nut, Fig. 21.
5. Using feeler gauges, check valve clearance. Clearance should be as listed in Table No. 4, last page.

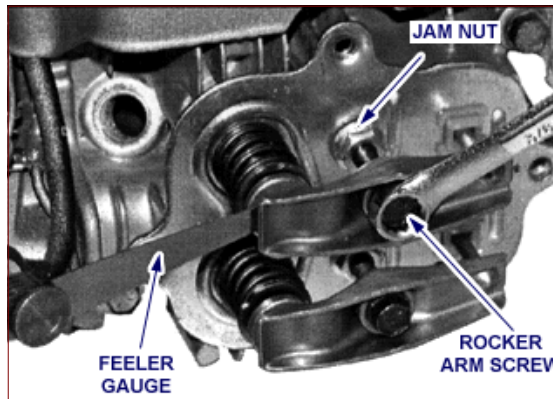


Fig. 21 - Adjust Rocker Arm Clearance, Early Style

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6. If not, adjust by turning rocker arm screw until correct clearance is obtained, Fig. 22.

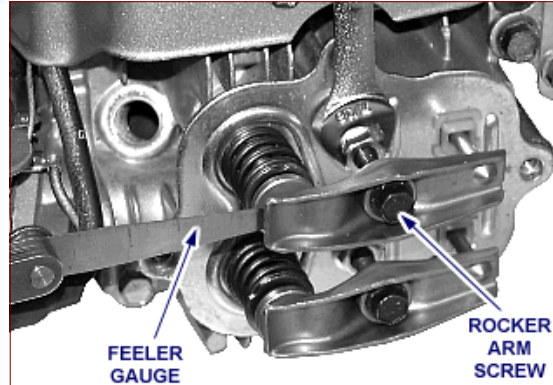


Fig. 22 - Adjust Valve Clearance

7. While holding screw, torque jam nut to 85 in. Lbs. (10Nm) and recheck clearance, Fig. 23. Recheck valve clearances and readjust, if required.

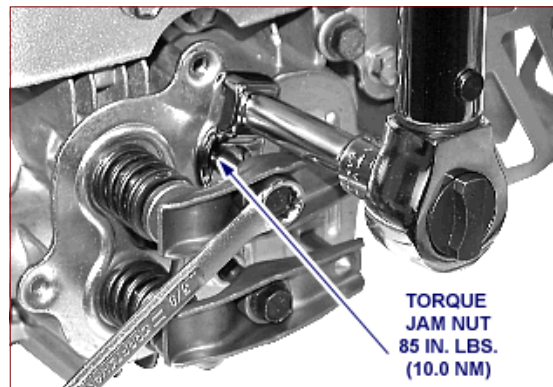


Fig. 23 - Locking Jam Nut

COMPRESSION

Cylinder Head

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Models 28S700, 311700

Note: Check valve clearances while engine is cold.

1. Turn crankshaft until piston is at Top Dead Center (both valves closed) on compression stroke.
2. Insert a narrow screwdriver or small rod into spark plug hole against piston. Screwdriver is used to gauge piston movement.
3. Turn crankshaft clockwise (flywheel end), while watching screwdriver or rod, past Top Dead Center until piston is 1/4" (6.35 mm) down.
4. Using feeler gauges, check valve clearance. Clearance should be as listed in Table No. 4, previous page.
5. Adjust as required, Fig. 24.
6. When valves are adjusted, hold rocker nut and torque rocker ball screw (T-20 Torx®) to torque listed in Table No. 5.
7. Recheck clearance and readjust, if required.

Note: Correct positioning of crankshaft is required to eliminate compression release from holding valves open.

Table No. 4

Valve Cover Torques	
Models	In. Lbs (Nm)
110400 110600 111400 111600 113400 120400 120600 121400 121600 123400	40 (5)
122600 123600	85 (10)
28S700 311700	55 (6)

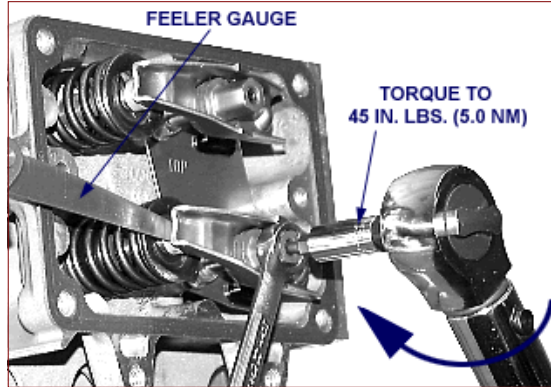


Fig. 24 - Adjust Valve Clearance

Table No. 5

Valve Clearances		
Models	Intake	Exhaust
110400 111400 113400 120400 121400 123400	.004 - .006" (.10 - .15 mm)	.004 - .006" (.10 - .15 mm)
110600 111600 120600 121600 122600	.004 - .008" (.10 - .20 mm)	.004 - .008" (.10 - .20 mm)
28S700 311700	.005 - .007" (.13 - .18 mm)	.005 - .007" (.13 - .18 mm)